ENVIRONMENTAL CHEMISTS

Date of Report: 08/02/01 Date Received: 07/19/01

Project: Metro Self Monitor, PO# M66499

Date Extracted: 07/27/01 Date Analyzed: 07/27/01

RESULTS FROM THE ANALYSIS OF WATER SAMPLE FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Results Reported as mg/L (ppm)

Sample ID	Chromium	Copper	Nickel	Zinc
Laboratory ID				
M66499	0.58	0.48	0.52	0.08
107083-01				
Method Blank	< 0.05	< 0.05	< 0.05	< 0.05

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Date of Report: 08/02/01 Date Received: 07/19/01

Project: Metro Self Monitor, PO# M66499

QUALITY ASSURANCE RESULTS FROM TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 107045-01 (Duplicate)

			encountry of the state		Relative		
		Reporting	Sample	Duplicat	e Percent	Acceptan	ce
Š,	Analyte	Units	Result	Result	Difference	Criteria	<u> </u>
1	Chromium	mg/L (ppm)	0.16	0.13	21 a	0-20	
A.	Copper	mg/L (ppm)	0.17	0.14	19	0-20	
	Nickel	mg/L (ppm)	0.09	0.06	40 a	0-20	1
	Zinc	mg/L (ppm)	0.06	0.06	0	0-20	

Laboratory Code: 107045-01 (Matrix Spike)

	Reporting	Spike	Sample	% Recov	ery % Recov	very Acceptanc	e RPD
Analyte	Units	Level	Result	MS	MSI) Criteria	(Limit 20)
Chromium	mg/L (ppm)	5	0.16	95	102	80-120	7 45
Copper	mg/L (ppm)	5	0.17	91	99	80-120	8
Nickel	mg/L (ppm)	10	0.09	98	102	80-120	4
Zinc	mg/L (ppm)	5	0.06	112	110	80-120	2

Laboratory Code: Laboratory Control Sample

- Landada de Co	do. Edbordor, com	TOT CHILLD.	10				
Albu and Albu	Reporting	Spike	% Recove	ery % Recov	ery Acceptanc	ee RPD	
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)	
Chromium	mg/L (ppm)	50	105	102	80-120	3	m.
Copper	mg/L (ppm)	50	108	105	80-120	3	
Nickel	mg/L (ppm)	100	105	102	80-120	3	
Zinc	mg/L (ppm)	50	104	101	80-120	3	

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

107083 RJ 7.19.01 AI, SAMPLE CHAIN OF CUSTODY TURNAROUND TIME PROJECT NAME/NO. PO# ☐ Standard (2 Weeks) Company Alaskan Coppin Librales O RUSH METRO SECT monitor m66499 Rush charges authorized by: SAMPLE DISPOSAL REMARKS City, State, ZIP SEATTLE CUS ☐ Dispose after 30 days ☐ Return samples Phone # 266-382-8329 Fax # 266-382-4369 ☐ Will call with instructions

						ANALYSES REQUESTED										
Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Cham; 20		e e	Note	s
m66459	01	7/19/41	1/:30	H20	1							$\sqrt{}$				
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Friedman & Bruya, Inc. 3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

/ SIQNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by	GERAGO A, Thompson	ACW	7/19/01	12:30
Received by . Ottom	Silborn	FJB, Inc	1	1
Relinquished by:	·			
Received by:				

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ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

August 2, 2001

DUPLICATE COPY

INVOICE #01ACU0802-2

Accounts Payable Alaskan Copper Works 628 South Hanford Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M66499 - Results of testing requested by Gerry Thompson for material submitted on July 19, 2001.

1 sample analyzed for Total Chromium, Copper, Nickel and Zino	C
by Method 6010B @ \$80 per sample	\$ 80.00
[문학자] 전 역시 기업 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전	
Amount Due	\$ 80.00

FEDERAL TAX ID #(b) (6)

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

August 2, 2001

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on July 19, 2001 from your Metro Self Monitor, PO# M66499 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Kurt Johnson Chemist

Enclosures ACU0802R.DOC